

COURSE FILE SUMMARY

COURSE INFORMATION

College / Institute / Center	Management and technology	Department	Business Administration
Programme Title	Bachelor of Business Administration	Programme Code	
Course Title	Math 2	Course Code	EB128
# Hours	-----2-----	-----2-----	-----3-----
	Lecture	Lab / Tutorial	Credit
Pre Requisites : Math 1 EB127			

COURSE AIM

The aim of this course is to acquaint the students with applications of calculus in business and economics. The course includes: limits and derivative, Minima and maxima and its applications in business and economics, definite and indefinite integrals, applications of integrals in business and economics.

COURSE OBJECTIVES

Mathematics intends that students will:

1. Develop mathematical skills and apply them
2. Develop the ability to communicate mathematics with appropriate symbols and language
3. Develop patience and persistence when solving problems
4. Develop and apply business and economics skills in the study of mathematics

STAFF REQUIREMENTS

	Qualifications	Special Skills	Number
Lectures	Ph.D	—	
Tutorials	Bachelor of commerce		
Laboratories / Workshops			

READING MATERIAL

Code*	Description
	NA
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* TB : Text Book RB: Reference Book ST: Standards / Codes LN: Lecture Notes	

SUPPLEMENTARY MATERIAL

Code*	Description
...OS...	Slides
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*PR: Periodical Audio Cassette SW: Software VT: Video Tape OS: Overhead Slide MD: Model AC:	

EDUCATIONAL RESOURCES

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LECTURE SCHEDULE

Lecture			Description
#	Week	Hrs	

1	1	3	Limits and Rate of Change
2	2	3	Definition of the Derivative
3	3	3	Techniques for finding Derivatives
4	4	3	Derivatives of Products and Quotients and Chain Rule
5	5	3	Exponential and Logarithmic Functions Derivatives
6	6	3	Continuity and Differentiability
7	7	3	7 th week exam
8	8	3	Maxima and Minima
9	9	3	Applications of Maxima and Minima in Economics and Business
10	10	3	Antiderivatives; Indefinite Integrals
11	11	3	Integration by Substitution
12	12	3	12 th week exam
13	13	3	Area of the Definite Integral
14	14	3	The Fundamental Theorem of Calculus
15	15	3	Applications of Integral
16	16	3	Final exam.

TEXT BOOKS	
Code*	Description
	Sullivan, "Mathematics with applications"

REFERENCE BOOKS	
Code*	Description
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TUTORIAL SCHEDULE			
Tutorial			Topic
#	Week	Hrs	
1	1	3	Applications on Limits and Rate of Change
2	2	3	Applications on Definition of the Derivative
3	3	3	Applications on Techniques for finding Derivatives
4	4	3	Applications on Derivatives of Products and Quotients and Chain Rule
5	5	3	Applications on Exponential and Logarithmic Functions Derivatives
6	6	3	Applications on Continuity and Differentiability
7	7	3	Solving the 7 th week exam
8	8	3	Applications on Maxima and Minima
9	9	3	Applications of Maxima and Minima in Economics and Business
10	10	3	Applications on Antiderivatives; Indefinite Integrals
11	11	3	Applications on Integration by Substitution
12	12	3	Solving the 12 th week exam
13	13	3	Applications on Area of the Definite Integral
14	14	3	Applications on The Fundamental Theorem of Calculus
15	15	3	Applications of Integral
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LABORATORY WORKSHOP SCHEDULE

Laboratory				Description
#	Week	Hrs.	Code	
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COMPUTER USAGE

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GRADING AND ASSESSMENT METHOD

Week #	Points	Written	Oral	Term Paper	Continuous	Thesis				
7	30	30								
12	20		10	10						
1-15	10		10							
16	40	40								

Prepared by:		Approved by :	
Designation		Designation	
Name	Dr. Mohamed Abdelsalam	Name	Dr.Ayman Eltemsahi
Sign		Sign	
Date	2/9/2007	Date	2/9/2007

